§ 64.9 Maintenance, repair, and alteration of MPTs.

- (a) Each MPT must be maintained in accordance with the approved plans, this part, and subpart 98.30 of this chapter.
- (b) Repair of an MPT is authorized, provided that each repair is in accordance with the approved plans.
- (c) No MPT may be altered, except with the written approval of the Commanding Officer, U.S. Coast Guard Marine Safety Center.
- (d) After each welded repair or alteration, an MPT must be hydrostatically pressure-tested in accordance with paragraph (a) of §64.83 of this part.

[CGD 84-043, 55 FR 37409, Sept. 11, 1990]

Subpart B—Standards for an MPT

§ 64.11 Design of MPTs.

An MPT must be designed-

- (a) In accordance with the ASME Code and this subpart;
- (b) With a maximum gross weight of 55,000 pounds:
- (c) To hold a liquid cargo that has a vapor pressure of 43 pounds per square inch absolute (psia) or less at a temperature of 122 °F;
- (d) With a minimum service temperature of 0 °F or higher;
- (e) With a maximum allowable working pressure of not less than 20 pounds per square inch gauge (psig) but not more than 48 psig; and
- (f) To withstand dynamic loading conditions applied simultaneously.

[CGD 84-043, 55 FR 37410, Sept. 11, 1990; 55 FR 40755, Oct. 4, 1990]

§ 64.13 Allowable stress; tank.

- (a) The calculated stress in the tank under design conditions, including dynamic loading conditions applied simultaneously, must not exceed the allowable stress listed in Division 1 of section VIII of the ASME Code, for a design temperature of 122 °F.
- (b) The calculated stress in the tank at test pressure must not exceed 75 percent of the minimum yield stress, 1 or 37.5 percent of the minimum tensile

¹Listed in Division 1 of section VIII of the ASME Code

stress¹ of the material, whichever is less

[CGD 73–172, 39 FR 22950, June 25, 1974, as amended by CGD 84–043, 55 FR 37410, Sept. 11, 1990]

§ 64.15 Allowable stress; framework.

The calculated stress for the framework must be 80 percent or less of the minimum yield stress of the framework material under the dynamic loading conditions that are applied simultaneously.

§ 64.17 Minimum tank thickness.

- (a) Except as allowed in paragraph (b) of this section, a tank with a diameter
- (1) 6 feet or less must have a shell and head of 3/16 inch thickness or more; or
- (2) More than 6 feet must have a shell and head of 1/4 inch thickness or more.
- (b) If the tank has additional framework to guard against accidental puncturing of the tank, the shell and head thickness must be 1/8 inch or more.

§64.19 External pressure.

- (a) A tank without a vacuum breaker must be designed to withstand an external pressure of $7\frac{1}{2}$ psig or more.
- (b) A tank with a vacuum breaker must be designed to withstand an external pressure of 3 psig or more.

§64.21 Material.

The material for a tank must meet the requirements in Division 1 of section VIII of the ASME Code.

[CGD 73–172, 39 FR 22950, June 25, 1974, as amended by CGD 84–043, 55 FR 37410, Sept. 11, 1990]

§ 64.23 Gasket and lining.

Each gasket and lining must be made of material that is—

- (a) Chemically compatible with the product for which the tank is approved;
- (b) Resistant to deterioration from the product for which the tank is approved.

§ 64.25 Cross section.

- A tank must have a cross section design that is—
- (a) Circular; or